



MC5000

Wireless LAN Controller

End-to-end control over the wireless LAN for your large enterprise

The MC5000 controller optimizes wireless traffic across all access points and client devices to provide superior performance, reliability, and predictability in your wireless LAN. Built on a highly extensible blade and chassis architecture, the MC5000 supports up to five blades per controller to provide a flexible and dynamically scalable solution. Powered by the System Director operating system, the MC5000 allows you to securely manage and easily control your wireless network while meeting mission-critical enterprise demands for wireless connectivity. It intelligently manages each device's connection, pooling and allocating network resources to flawlessly support a broad range of applications – including high-bandwidth applications like voice and video. The MC5000 supports the Service Assurance Application Suite to extend control and visibility over your Meru wireless LAN.

Features	Benefits
<ul style="list-style-type: none"> Powered by System Director operating system to govern all traffic on the wireless LAN Blade and chassis architecture supporting five blades per controller Airtime Fairness® allocates equal time across devices to ensure that all traffic operates at its maximum speed Single channel architecture with ability to layer additional channels in the same physical space Multilayered security: encryption, 802.1X authentication, firewall, rogue detection/suppression, and wireless IPS/IDS 	<ul style="list-style-type: none"> Controls and optimizes wireless traffic across access points and client devices for high performance Delivers high scalability and flexibility with easy capacity expansion Simultaneously supports multiple high-bandwidth, resource-intensive applications, including voice and video Eliminates co-channel interference and the need for channel planning Protects sensitive data and aids in compliance

APPLICATION: <ul style="list-style-type: none"> Large enterprises Headquarters Large campuses 	CAPACITY: 1,500 access points	CONNECTIVITY: Connectivity options (per blade; maximum 5 blades per controller): 4 10/100/1000 Base-TX Ethernet, 2 Base-X SFP, or 4 Base-X SFP
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MC5000

TECHNICAL SPECIFICATIONS

APPLICATION SUPPORT AND OVER-THE-AIR QoS

SIP and H.323 support

Dynamic out-of-the-box support for SIP and H.323v1 applications and codecs

QoS

Configurable dynamic QoS rules
Over-the-air resource reservation
Automatic, stateful flow detectors for SIP, H.323, Cisco SCCP, SpectraLink SVP, and Vocera
User-configurable static and dynamic QoS rules per application (user-defined) and per user (stations, users, and port numbers)
Call admissions control and call load balancing
WMM support

SECURITY

Authentication

Combination of captive portal, 802.1X, and open authentication
Advanced security using WPA2
802.1X with EAP-Transport Layer Security (EAP-TLS), Tunneled TLS (EAP-TTLS), Protected EAP (PEAP), MS-CHAPv2, Smartcard/Certificate, Lightweight EAP (LEAP), EAP-FAST, and EAP-MD5, with mutual authentication and dynamic per-user, per-session unicast and broadcast keys
Secure HTTPS with customizable captive portal utilizing RADIUS

Encryption support

Static and dynamic 40-bit and 128-bit WEP keys, TKIP with MIC, AES, SSL, TLS

Security Policy

RADIUS-assisted, per-user and per-ESSID access control via MAC filtering
Multiple ESSID/BSSID, each with flexibility of separate and shared security policy

Rogue Detection and Suppression

All controllers have the intelligence to identify and classify rogue devices in 802.11n, 802.11a, and 802.11b/g

Security Firewall

Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering
System-configured or per-user, RADIUS-configured firewall policy

MOBILITY

Zero-Loss Handoffs

Infrastructure-controlled, zero-loss handoff mechanism for standard Wi-Fi clients

Virtual Cell Load Balancing

Virtual Cell provides load balancing coordination for improved performance and WLAN resiliency upon AP failure

CENTRALIZED MANAGEMENT

Zero Configuration

Automatically selects power and channel settings
Access points automatically discover controllers and download configuration settings
Zero-touch, plug-and-play deployments

System Management

Centralized and remote management and software upgrades via System Director web-based GUI, SNMP, command-line interface (CLI) via serial port, SSH, Telnet, centrally managed via E(z)RF™ Network Manager
Centralized security policy for WLAN, multiple ESSIDs, and VLANs with their own administrative/security policies

Intelligent RF Management

Coordination of access points with load balancing for predictable performance
Centralized auto-discovery, auto-channel configuration, and auto-power selection for APs
Co-channel interference management

WIRED/WIRELESS SUPPORT

Wireless Compliance

IEEE 802.11 a/b/g/n, IEEE 802.11i support (AES, WEP, WPA, WPA2), IEEE 802.11e, WMM

Automatic Discovery & Configuration

All Meru access points

Wired/Switching

IEEE 802.1Q VLAN tagging, GRE Tunneling, and IEEE 802.1D Spanning Tree Protocol

PHYSICAL SPECIFICATIONS

Dimensions

19" width x 10 1/2" height x 15" depth
(48.3 cm width x 26.7 cm height x 38.1 cm depth)

Weight

50–100 lbs (22.7–45 kg) depending on configuration

Power

Per blade: 200W
Per chassis: 1200W

Environmental

Operating temperature: 0° to 40° C (32° F to 104° F)
Operating humidity: 95% at 40° C (104° F)
Storage temperature: -40° to 85° C (-40° F to 185° F)
Storage humidity: 95% at 40° C (104° F)

Interfaces

4 10/100/1000 Base-TX Ethernet or 2 Base-X SFP per blade; max 5 blades per controller
Power on/off switch
Status screen
Ethernet port status lights (LED) for link/activity/speed
Shelf management
Alarms for health status for each blade in the chassis

Access Point and Client Support

1,500 APs and 15,000 Wi-Fi clients

Mounting

6U rack mount

Standard Warranty

1 year

Certifications

RoHS Compliant
Wi-Fi Certified a/b/g/n



Safety Standards

UL 60950-1
IEC 60950-1

EMC

FCC Part 15/ICES-003 Class A
VCCI Class A (Japan)
EN 55022 (Europe)
EN 55024 (Europe)

For other countries and regions, please contact your local Meru representative for more specific regulatory information.

Part Numbers

MC5K-BA-XX Base MC5200 Chassis (6RU, 5-slot)
MC5K-HA-XX High Availability MC5000 Chassis (6RU, 5-slot)
MC5K-BLK1A4 Wireless Controller Blade for MC5000 w/4-port SFP GbE acceleration module
MC5K-BLK1C4 Wireless Controller Blade for MC5000 w/4-port copper GbE module
MC5K-BLK1F2 Wireless Controller Blade for MC5000 w/2-port fiber SFP GbE module

Other Controllers from Meru:

MC1500

Small-to-medium enterprises and remote offices
30 access points

MC3200

Medium enterprises and branch offices
200 access points

MC4200

Large enterprises and regional offices
500 access points

Meru delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network.



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